

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chen et al.

Attorney Docket No. BOEI-1-1037

Serial No.:

Group Art Unit: —

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Examiner: —

Title: VERTICAL SITUATION DISPLAY TERRAIN/WAYPOINT SWATH, RANGE TO
TARGET SPEED, AND BLENDED AIRPLANE REFERENCE

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M. Miller
5-7-03
(N.E.)

PRELIMINARY AMENDMENT

TO THE COMMISSIONER FOR PATENTS

Please enter the following Preliminary Amendment:

IN THE CLAIMS:

Please renumber original Claims 2, 3, and 4 as amended Claims 10, 12, and 18, respectively.

Please amend the claims as follows:

1. (Amended) A flight information display for a flight deck of an aircraft, the display showing a side view of a flight path or area directly in front of the aircraft having a selected distance of at least 0.5 nautical miles, the aircraft having means for determining the aircraft's location, the location determining means having a minimum accuracy, the display comprising:

a pictorial representation to scale of a profile of highest elevations of a swath of terrain along the path or area, a width of the swath being at least 0.1 nautical miles and no greater than a distance of the minimum accuracy of the location determining means;

an icon representing the aircraft, the icon being positioned on a left or right side of the display, the altitude of which is to scale with the height of the terrain; and
an altitude reference scale.

2. (New) The display of Claim 1, further comprising a top-down display of a range of terrain in front of the airplane to a compass rose, wherein the selected distance shown in the side view is at least half the range of terrain shown on the top-down display.

3. (New) The display of Claim 2, wherein the selected distance shown in the side view is no greater than two times the range of terrain shown on the top-down display.

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